



The Abdus Salam
International Centre
for Theoretical Physics



Spring College on the Physics of Complex Systems

Description:

ICTP and SISSA, in collaboration with the partner institutions of the International Master Course in Physics of Complex Systems (PCS), and with the financial support of Politecnico di Torino and Université Franco Italienne, are organizing the Spring College on the Physics of Complex Systems from 17 February to 14 March 2024.

MORE DETAILS:

Many complex systems in physics, biology, engineering and economics are characterised by a large number of interacting degrees of freedom, giving rise to a non-trivial collective behaviour. The theoretical and computational tools for a quantitative analysis of complex systems are often rooted in modern theoretical physics. The Spring College on the Physics of Complex Systems aims to expose students to a selection of topics at the forefront of research during an intensive, 4-week programme.

The Spring College is part of the PCS Master programme and it is open to qualified Master and PhD students, and to young researchers.

LECTURERS AND COURSES:

LI ZHAOPING

UNIVERSITY OF TÜBINGEN, MAX PLANCK INSTITUTE FOR BIOLOGICAL CYBERNETICS, GERMANY
"UNDERSTANDING VISION: THEORY, MODELS AND DATA"

ARIEL AMIR,

WEIZMANN INSTITUTE OF SCIENCE, ISRAEL

AMIR EREZ

THE RACAH INSTITUTE OF PHYSICS, ISRAEL

"PHYSICS OF BACTERIA: FROM SINGLE-CELLS TO ECOLOGY"

SHAMIK GUPTA

TATA INSTITUTE OF FUNDAMENTAL RESEARCH, INDIA

"SYNCHRONIZATION: A PLAYGROUND FOR NONEQUILIBRIUM STATISTICAL PHYSICS"

JACOPO GRILLI

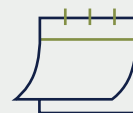
ICTP, ITALY

"QUANTITATIVE PHYSIOLOGY | CRITICAL THINKING"

RULES FOR PARTICIPATION:

The spring college will be composed of 4 courses each of 9 lectures and a final exam for each course. Candidates are required to solicit recommendation letters to be sent by their supervisors in support of their application.

Participants with financial support from the ICTP and Master PCS students are required to attend at least 80% of the courses and to take the final exam for each course. Certificates of attendance will be awarded only to participants who have attended at least 80% of the courses.



17 February - 14 March 2025



Trieste, Italy



Deadline:

12 December 2024

DIRECTORS:

J. GRILLI, ICTP, Italy

M. MARSILI, ICTP, Italy

A. ROSA, SISSA, Italy

FURTHER INFORMATION:

E-mail: smr4056@ictp.it

Web: <http://indico.ictp.it/event/10821/>

Female scientists are encouraged to apply.



GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.



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di Torino

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JSTAT
Journal of Statistical Mechanics:
Theory and Experiment

